

Declaration, Power Of Attorney and Petition

Page 1 of 3

WE (I) the undersigned inventor(s), hereby declare(s) that :

My residence, post office address and citizenship are as stated below next to my name,

We (I) believe that we are (I am for which a patent is sought on the i	n) the original, first, and jo	int (sole) inventor(s) of the subjec	t matter which is claimed and
THIN LAYER OF HAFNIUM OXI	DE AND DEPOSIT PROC	CESS	i
the specification of which			
is attache	d hereto.		·
was filed	on		
as Appli	cation Serial No.		
and ame	nded on		
was filed	as PCT international app	olication	
Number	PCT/FR99/02797		
on Nove	ember 15, 1999		
and was	amended under PCT Ar	ticle 19	
on			
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We (I) hereby state that we (I) the claims, as amended by any ame	have reviewed and unders ndment referred to above.	tand the contents of the above-ide	ntified specification, including
We (I) acknowledge the duty to in Section 1.56 of Title 37 Code of	disclose information know Federal Regulations.	n to be material to the patentabilit	y of this application as defined
We (I) hereby claim foreign pr patent or inventor's certificate, or than the United States, listed below inventor's certificate, or PCT Inter claimed. Prior Foreign Application	§ 365 (a) of any PCT Inter and have also identified transfer application having	nelow, by checking the box, any to	oreign application for patent or
			Priority
Application No.	Country	Day/month/Year	Claimed
98 14350	FRANCE	16 NOVEMBER 1998	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO
			YES NO

	(Application Nu	mber)	(Fil	ing Date)		
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	(Application Nu	imber)	(F11	ing Date)		
We (I) hereby claim to ternational application do not application is not discret paragraph of 35 U.S efined in 37 CFR § 1.50 ternational filing date of	lesignating the Unite closed in the prior U .C. § 112, I acknow 5 which became ava	Jnited States or PCT Int vledge the duty to disclo	l, insofar as t ernational ap ose informati	the subject mate oplication in the ion which is n	ter of each of the ne manner provid naterial to patent	claims of led by the lability as
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Application Serial No.		Filing Date			abandoned)	
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Date

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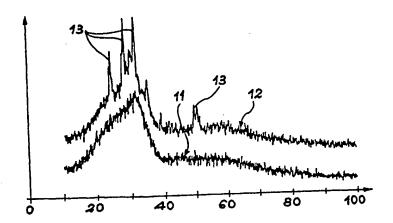
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(54) Title: THIN HAFNIUM OXIDE FILM AND METHOD FOR DEPOSITING SAME

(54) Titre: COUCHE MINCE D'OXYDE D'HAFNIUM ET PROCEDE DE DEPOT



(57) Abstract

The invention concerns a thin hafnium oxide film or a stack of thin films comprising hafnium oxide for treating optical surfaces, or optical components. The invention is characterised in that at least one hafnium oxide film is in amorphous form with density less than 8 g/cm³. The invention also concerns a method for producing an amorphous hafnium oxide film on a substrate, characterised in that it is deposited without energising the substrate.

(57) Abrégé

Couche mince d'oxyde d'hafnium ou empilement de couches minces comportant des couches d'oxyde d'hafnium pour réaliser des traitements de surface de composants optiques, ou des composants optiques, caractérisé en ce qu'au moins une couche d'oxyde d'hafnium est sous forme amorphe avec une densité inférieure à 8 g/cm³. L'invention concerne aussi un procédé de réalisation d'une couche d'oxyde d'hafnium amorphe sur un substrat, caractérisé en ce que le dépôt est effectué sans apport énergétique au substrat.

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V-1 -	Brevet régional (d'autres formes de protection ou de traitement, le cas échéant, sont spécifiées entre parenthèses pour les Etats désignés concernés)	EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE et tout autre Etat qui est un Etat contractant de la Convention sur le brevet européen et du PCT	
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